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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/869,869	07/06/2001	Stuart J. Knechtle	14028.0293U1	1262
23859 75	90 10/04/2004		EXAMINER	
NEEDLE & R	OSENBERG, P.C.		GAMBEL,	PHILLIP
SUITE 1000 999 PEACHTR	EE STREET		ART UNIT	PAPER NUMBER
ATLANTA, GA 30309-3915			1644	
			DATE MAILED: 10/04/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/869,869	KNECHTLE ET AL.			
		Examiner	Art Unit			
		Phillip Gambel	1644			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) <u> </u>	This action is FINAL . 2b) This	action is non-final.				
3) 🗌 S						
-	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-33 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
•	6)☐ Claim(s) is/are rejected. 7)☐ Çkáim(s) is/are objected to.					
8) Claim(s) 1-32 are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)∐ T	he oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 						
. 2	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

1. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Group I, claims 1-28, drawn to methods of preventing chronic rejection of a transplant by administering an immunotoxin and a costimulation blocker.

Group II, claims 29-33, drawn to methods of reversing late acute rejection of transplants by monitoring for late acute rejection indicators.

2. The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The inventions of Groups I and II were found to have no special technical feature that defined the contribution over the prior art of Koulmanda et al., Xenotransplantation 5: 215-221 (1998), WO 96/32137 (Neville et al.) and WO 99/53954 (Neville et al.) for the reasons set forth in International Preliminary Examination Report provided with the instant application. For example, Koulmanda et al. teach the combination of anti-CD3 or anti-CD4 antibodies that deplete T cells with an inhibitor of T cell costimulation (see entire document including Abstract, page 218 and Figure 3). Both WO 96/32137 and WO 99/53954 teach the use of immunotoxin to reduce T cell populations in order to prevent graft rejection. Therefore, it would have been obvious to one of ordinary skill at the time the invention was made to use immunotoxins in combination with costimulatory blockers in order to prevent graft rejection. Combination of known pharmaceutical compounds in order to achieve the same therapeutic effect were well known and practiced by the ordinary artisan at the time the invention was made.

Accordingly, Groups I-II are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept that defines a contribution over the prior art.

- 3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.
- (A) With respect to Group I, this application contains claims directed to the following patentably distinct species of the claimed Invention: wherein the costimulation blocker (e.g. see page 5, paragraph 1-2 of the specification) is:
 - (i) CTLA4-Ig
 - (ii) anti-CD154 (anti-CD40 ligand) antibody,
 - (iii) anti-CD40 antibody
 - (iv) anti-CD80 (anti-B7-1) antibody, or
 - (v) anti-CD86 (anti-B7-2) antibody.

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These species are distinct because their structures and modes of action are different.

B) With respect to Groups I and II, it is noted that the specification appears to only disclose anti-CD3 immunotoxins (e.g. see page 11, paragraph 2 of the specification).

Applicant is invited to amend the claims to recite the CD3 specificity for the claimed immunotoxins.

However, if applicant intends to claim or claims other immunotoxin specificities other than anti-CD3 immunotoxins, such specificities will be subject to further species election.

- (C) <u>With respect to Group II</u>, this application contains claims directed to the following patentably distinct species of the claimed Invention: wherein the indicator of late acute rejection (e.g. see page 10, paragraph 1 of the specification) is:
 - (i) elevated serum creatinine
 - (ii) tubulitis or
 - (iii) anti-donor antibody.

These species are distinct because the represent diverse endpoints in terms of the structures targeted and the nature of the assay that would detect such indicators.

4. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- 5. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Gambel whose telephone number is (571) 272-0844. The examiner can normally be reached Monday through Thursday from 7:30 am to 6:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Primary Examiner

Technology Center 1600

September 29, 2004